

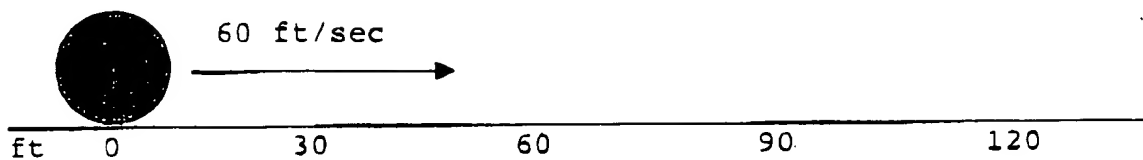
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FIGURE 3:

## STARTING POINT



AFTER ONE SECOND OF REAL TIME,  $EEF=.75$

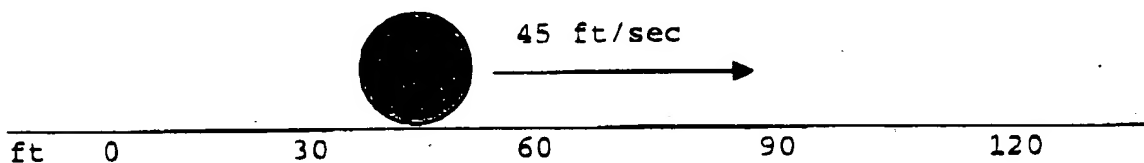
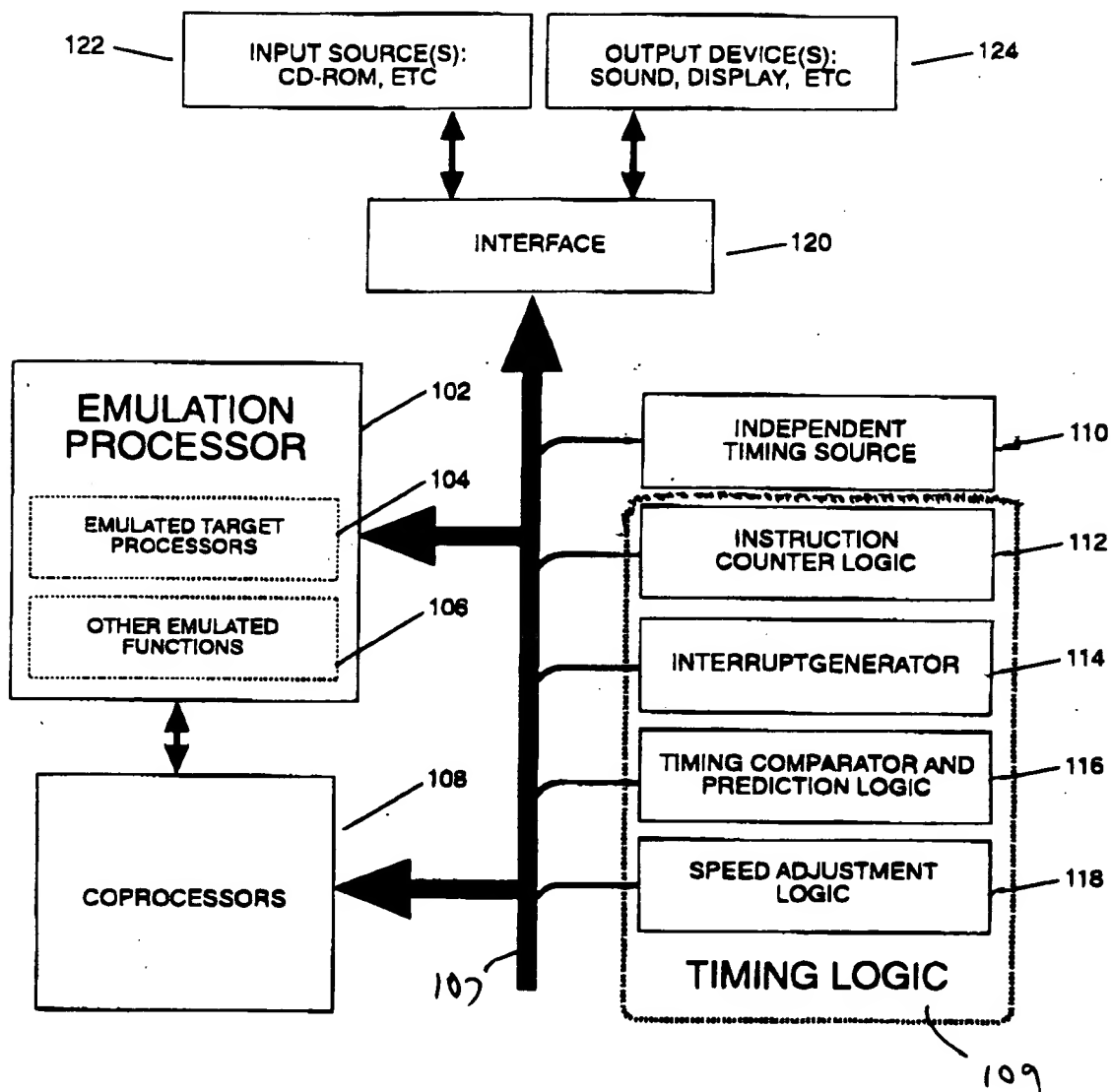


FIGURE 4: STRUCTURE

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graph TD
    200([BEGIN]) --> 202[INITIALIZE VARIABLES WITH KNOWN VALUES]
    202 --> 204[QUERY INDEPENDENT TIMING SOURCE; SAVE AS RTC VARIABLE]
    204 --> 206[EMULATOR EXECUTES NON-NATIVE INSTRUCTION]
    206 --> 208[DECREMENT ITSC BY IEF]
    208 --> 210{DOES ITSC < 0?}
    210 -- N --> 206
    210 -- Y --> 212[QUERY INDEPENDENT TIMING SOURCE]
    212 --> 214[READ REAL TIME CLOCK VALUE FROM MEMORY]
    214 --> 216[COMPUTE ELAPSED TIME]
    216 --> 218[READ BTQ VALUE FROM MEMORY]
    218 --> 220[COMPUTE EMULATION EFFICIENCY FACTOR]
    220 --> 222{IS EEF WITHIN ACCEPTABLE VARIANCE?}
    222 -- "<1.0-AV" --> 228[READ IEF VALUE FROM MEMORY]
    222 -- ">1.0+AV" --> 224[READ LEEF VALUE FROM MEMORY]
    222 -- Y --> 232[QUERY INDEPENDENT TIMING SOURCE; REPLACE RTC VARIABLE]
    228 --> 230[MULTIPLY IEF BY 1/EEF; SAVE AS NEW IEF VALUE]
    230 --> 232
    224 --> 226{IS LEEF LESS THAN 1.0-AV?}
    226 -- Y --> 232
    226 -- N --> 206
    232 --> 234[REPLACE LEEF WITH EEF, RESET ITSC]
    234 --> 206

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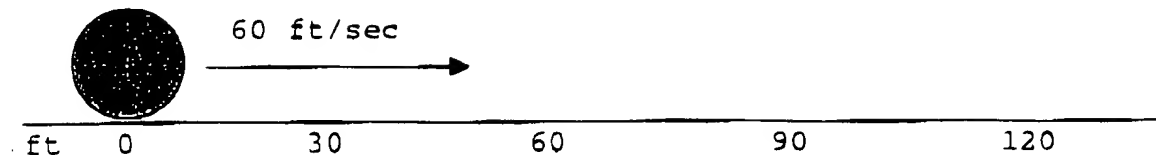
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FIGURE 1:

STARTING POINT



AFTER ONE SECOND OF REAL TIME

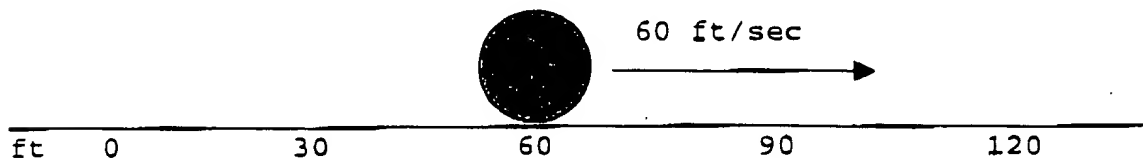
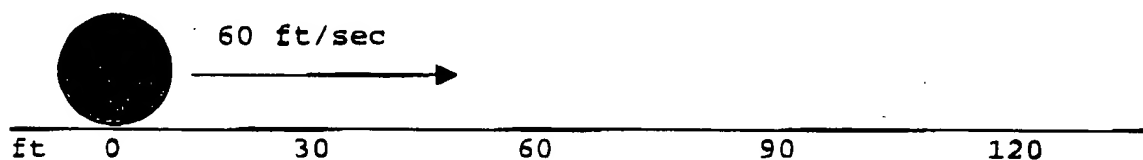


FIGURE 2:

STARTING POINT



AFTER ONE SECOND OF REAL TIME, EEF=1.5

